

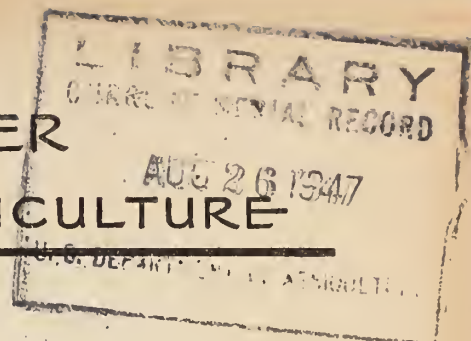
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LIBRARY NEWSLETTER

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ENGINEERING FOR DAMS

Comment by J. W. Jourdan, Agri. Engineer
U.S Soil Conservation Service, Albuquerque, N. M.

"Engineering for Dams" treats the subject of dams in three volumes. Vol. I, general design, includes the investigation and choice of dam sites, preparation of foundations, hydraulic model studies, and spillways. Vol. II is devoted to the study of forces on dams, requirements for stability, and the design of gravity and arch dams. The last chapter of Vol. II covers the subject of concrete for dams. Vol. III covers the design of earth dams, rock-fill dams, timber dams, and steel dams. This volume also has chapters on soil tests and their utilization, dam details and accessories, and head water control.

This work on dams by Creager, Justin and Hinds is well balanced between theory and practice. It is illustrated with construction pictures and design details, and gives numerous citations on the construction of dams. Study and use of the three volumes should prove valuable to both the student and the practicing engineer concerned with investigations for and the design and construction of dams. The authors are experienced engineers as well as the authors of other books on dams and hydraulics.

ENGINEERING FOR DAMS, by W. P. Creager, J. D. Justin, and Julian Hinds.
3 vols. John Wiley and Sons, Inc. 1945 290 C862Ed.

NEW BOOKS

ALL ABOUT HOUSE PLANTS; their selection, culture and propagation, and how best to use them for decorative effect, by Montague Free 329 p. American garden guild 1947 96.06 F87

Whether you are interested merely in a pot or two of flowering plants on the window sill or an elaborate indoor garden of many species, this volume will tell you what to select to suit your particular needs and conditions, and how to develop its full possibilities. Text and pictures combine to cover such points as how to provide suitable conditions for growth, the arrangement of plants for decorative effects, sowing, potting, combating pests.

ANIMAL NUTRITION, by L. A. Maynard 494 p. 2d. ed. McGraw-Hill 1947 389.7 M45 Ed.2

As in the previous edition, this widely-used text presents the chemistry and physiology of nutrition, with the applications of this knowledge to the feeding of farm animals. The essentials of nutritional chemistry and physiology have been expanded to include developments in amino acid, vitamin, and mineral nutrition. The treatments of mineral elements such as copper, manganese and magnesium, have been enlarged.

BOVINE MASTITIS; a symposium, edited by R. B. Little and W. N. Plastridge.
546 p. McGraw-Hill 1946 41 L722

A group of recognized experts present a scientific treatment of bovine mastitis to give an over-all picture of the disease as it occurs naturally, and of the advances that have been made in its study. The material covers anatomy of the udder, physiology of milk secretion, pathology, diagnosis, and bacteriology of mastitis.

CITROCRAFT, A Manual for Rio Grande Valley Citrus Growers, by George R. Schulz.
237 p. Texas soil lab. 1947 93.33 Sch8

Written for the grower, this book provides basic information on the soil and water conditions of the Valley. Soil structure, the use of gypsum and sulphur, working the soil, irrigation problems, overhead irrigation, plant nutrients, and soil testing are some of the subjects discussed. The chapter on "Salts, The Valley's Greatest Challenge" will be of interest to many concerned with this problem.

THE COMPLETE DOG BOOK. American Kennel Club 793 p. Garden City pub. co.
1947 48 Am32C

"The care, handling, and feeding of dogs; and pure bred dogs; the recognized breeds and standards." - Subtitle

This new edition includes up-to-date changes in standards and descriptions of many new breeds not included in the original edition. Information on origin and history has been prepared by each breed association.

DOMESTIC GEESE AND DUCKS; A complete and authentic handbook and guide for breeders, growers and admirers of domestic geese and ducks, by F. L. Sowll. 372 p.
Orange Judd 1947 47.1 Iv3

Written for the practical breeder, this book tells how to make a start, how to handle the breeding stock, the production of eggs, the care, feeding, growing and fattening of young. Given in detail are instructions for killing, dressing and marketing as well as methods of disposing of the birds to the best advantage and with the greatest profit.

THE DUCKS, GEESE AND SWANS OF NORTH AMERICA, by F. H. Kortright. 476 p. Amer. wildlife inst. 1943 413 K84

A complete, scientifically accurate and beautifully illustrated treatise on North American waterfowl.

The Winnipeg Tribune, comments: "The sportsman will find the answers - in plain everyday language - to almost any conceivable question which may arise about any species of duck or goose which comes to bag."

DROUGHT, ITS CAUSES AND EFFECTS, by I. R. Tannahill. 264 p. Princeton univ. press 1947 340 T15D

Brief well written account of cause of droughts and how they can be predicted. Short history of droughts in the United States and review of weather conditions preceding them and possibility of predicting them through study of various processes concerning rainfall, sun spots, weather variations and climatic changes. Author is chief of Synoptic Reports and Forecasts, U.S. Weather Bureau. Weather records and maps, photographs, illustrations and extensive bibliography are included.

ELEMENTS OF HYDRAULIC ENGINEERING, by D. S. Ellis. 277 p. Van Nostrand 1947
290 E14

Contents.- Physical properties of common fluids.- Hydrostatics.- Stability of flotation.- General principles of fluid motion.- Flow through orifices.- Weir flow.- Friction loss in closed conduits.- Conduit losses other than pipe friction.- Flow in open channels.- Dynamic effects of fluids.- Centrifugal pumps.- Water wheels.- Ventilation of buildings and mines.- Fans.- Water hammer.- Waves and surges in open channels.- Hydraulic measurements.

EVERYBODY'S HANDICRAFT HANDBOOK. Progress press 1946 155 p. 317 Ev2

Describes tools, materials and techniques of many crafts including leathercraft, woodcarving, puppets, block printing, poster design and lettering, cartooning, drawing, water color, photography. There is a selected bibliography

GARDENING IN THE SOUTH AND WEST, edited by Mrs. G. R. Scruggs and M. A. Scruggs. 297 p. Doubleday & co., 1947 97 Scr6

One of the most interesting sections of this book is that on how to make use of the native plants and trees of the Southwest. The lists of drought-resistant plants, and plants for desert gardens increases the usefulness of a book which covers every gardening detail for an area notable for the variety of its climate and vegetation.

GRAZING LAND MANAGEMENT, by Volney M. Douglas 31 p. 1947 60.1 D74

This paper explains some of the important facts and practical cultural procedures which make management of grazing land profitable.

HUMUS AND THE FARMER, by Friend Sykes 288 p. Faber 1946 57.4 Syl4

Many years ago the author sold his property in the fertile Thames valley and bought land in Wiltshire - land that was so barren and neglected that it was described by one critic as "just so much space out-of-doors." This farm is now one of the most productive in England. In this book Mr. Sykes describes the exact methods of cultivation which brought about its high degree of fertility. The experiments which he conducted were made for the sole purpose of improving the farm's output and value, and the principles advocated are, according to the author, applicable to every type of soil.

Much of the subject-matter is controversial, and as such is sure to stimulate thought, interest and experiment.

THE INDOOR GARDENER, by Daisy T. Abbott. 120 p. Univ. of Minn. press 1946
96.06 Ab2

This handbook is for a busy person with window sills, not an unhurried one with a greenhouse. It emphasizes the hardy plants, not exotic ones; inexpensive, not expensive ones. Directions are simple and easy to follow, written with clarity and humor.

LOOK AT AMERICA: THE SOUTHWEST. 393 p. Houghton-Mifflin 1947 125 L87

This is the first of a series of standard regional guide books of America by the Editors of Look. It offers you a graphic presentation of the well known and the unfamiliar, the legendary and the bizarre in this colorful region. The book's combination of fact-crammed text and striking pictures will recreate scenes for those who know the Southwest and provide a graphic account for the newcomers in the region

THE LAND AND WILDLIFE, by E. H. Graham. 232 p. Oxford univ. press 1947
282.12 G76

A guide to the management of wildlife by means of land use. The book deals

THE LAND AND WILDLIFE, by Edward H. Graham (cont.)

with those land-use practices that have been found to be most beneficial to wildlife. It describes each practice, how it fits into schemes of wise land management, and what it means to wildlife.

The author is Chief Biologist of the Soil Conservation Service. He is also the author of Natural Principles of Land Use (282 G76) which deals with biological principles applicable to land management.

PROBLEMS AND PROGRESS OF FORESTRY IN THE UNITED STATES. Report of the Joint committee on forestry of the National research council and the Society of American foresters. 112 p. 1947 99.61 J66

PUBLICITY, HOW TO PLAN, PRODUCE AND PLACE IT, by H. M. Baus. 252 p. 238.2 B32

From a long and varied experience Mr. Baus has written a book that will be of practical help to those who handle publicity and are interested in its technique.

SOIL EROSION IN NEW ZEALAND: A Geographic reconnaissance, by K. B. Cumberland. 228 p. Whitcombe & Tombs 1947 56.7 C91

This book has a great deal to tell Americans who are interested in the fate of their land, for the problem of erosion in New Zealand is strikingly similar to that in the United States. What erosion is; how it occurs in the different regions of New Zealand; what it means to the national stability and productiveness of the country; what may be done to arrest it - these are the themes on which Mr. Cumberland writes.

TIME TO SPEAK UP; A Speaker's Handbook for Women, by Jessie R. H. Butler. 264 p. Harper 1946 145.2 B97

This handbook sets forth techniques by which the art of speaking can be developed through practice. It traces each step in the preparation of a speech. It offers important suggestions on carriage and dress. Attention is given to such special subjects as the duties of the toastmistress, the work of the delegate to the convention, the presenting and receiving of gifts, activities at board meetings and similar group functions. There are also helpful points on mastering fear, and on developing powers of creative thinking.

TWO BLADES OF GRASS, A History of Scientific development in the U. S. Department of Agriculture, by T. Swan Harding. 352 p. Univ. of Oklahoma press 1947. 31.3 H21T

The editor of USDA has written this interesting record of the Department's search for rust-proof grain, pure foods, better apples and vegetables, for better methods of soil and forest conservation, prevention of disease in plants and animals, for control of insects, for economic uses of farm products and by-products. These and many other scientific wonders are described in Mr. Harding's highly readable style.

VIRUSES AND VIRUS DISEASES OF PLANTS, by H. T. Cook 244 p. Burgess 1947 464.32 C77

"The work is intended primarily to give a review of our knowledge of the subject for advanced students in botany and plant pathology; to present as many facts as possible, briefly and in such order that they may be most helpful to the students." - Preface

NOTES

C. H. Diebold, Soil Scientist with the Soil Conservation Service in Albuquerque told us he found a lot of good information in the book TRACE ELEMENTS IN PLANTS AND ANIMALS so we asked him to write a brief descriptive note for the Newsletter. "The first part of the book," he writes, "is devoted to methods of investigating micronutrient problems and will interest laboratory technicians. The portion dealing with trace element deficiency diseases in plants is the best review of the literature that I have seen. It is well documented and easily understood. The last part discusses trace elements in animals which is a stimulating subject. For those who wish to pursue the matter further there are 23 pages of references."

TRACE ELEMENTS IN PLANTS AND ANIMALS, By Walter Stiles. 189 p. Cambridge Univ. press 1946 395 St5

You don't want to miss the new Yearbook of Agriculture. It is the first in five years and is called SCIENCE IN FARMING. It is a report on some of the new developments in farm science. There is a world of practical information about recent research on animals, plants, insects, trees, soils, water, machines, conservation, processes, marketing, industrial uses of farm products, agricultural chemistry, food, clothing, and economics.

THE YEARBOOK OF AGRICULTURE 1943-1947. Science in Farming. 944 p. U.S.Govt.print.off. 1947 1 Ag84Y

Have you seen the HEARINGS on the Agriculture Appropriation Bill? Both the House and Senate volumes make mighty interesting, and informative, reading. The House publication is a voluminous volume of 2359 pages, and the Forest Service Hearings are published separately. We have only one copy of each so you may have to wait awhile, but we think you will find these worth waiting for. If you want a brief report on the House Subcommittee's action on the bill ask for HOUSE REPORT 450.

DEPARTMENT OF AGRICULTURE APPROPRIATION BILL FOR 1948. Hearings before the subcommittee of the Committee on Appropriations, House of Representatives. 2 pts. U.S.Govt.print.off. 1947

Ask for Part 2 if you want the Forest Service Hearings.

AGRICULTURAL APPROPRIATION BILL FOR 1948. Hearings before the Subcommittee of the Committee on Appropriations U.S. Senate. 1238 p. U.S.Govt.print.off. 1947

DEPARTMENT OF AGRICULTURE APPROPRIATION BILL, fiscal year 1948 (H.Rept.450)

BUILDING AIDS

With the housing situation what it is today many USDAers are probably being asked for information about building. Seldom a day goes by in the library without at least one request for information on this subject. Fortunately a number of excellent publications have just been issued, and there are many others on our shelves waiting to be put to use.

Two of the best we have seen are YOUR FARMHOUSE - HOW TO PLAN REMODELING (USDA Misc.Pub.619) and YOUR FARMHOUSE - CUT-OUTS TO HELP IN PLANNING (USDA Misc.Pub.622) This last bulletin not only tells you how to use cut-outs in planning a new house, but actually has the cut-outs representing kitchen ranges, sinks, laundry equipment, cabinets, refrigerators and home freezers, living-room, dining room and bed room furniture, bathroom fixtures, fireplaces, chimneys, and other features.

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Don't cut the library copy, but after you have seen this bulletin you may want to request a copy for your own use from the Office of Information, U.S. Department of Agriculture.

Three of our older books that have been in great demand recently are FIRST AID FOR THE AILING HOUSE, by R. G. Whitman (323 W59) CONCRETE HANDBOOK (299 C74) and PRACTICAL JOB POINTERS by N. L. Burbank (296 B89p). All give practical information on building, remodeling, and repairing.

We know there is a great deal of interest in the use of adobe in building for we were fairly swamped with requests for the book BUILD YOUR OWN ADOBE by Paul and Doris Aller (296 A153). We have a l-o-n-g reserve list on this now so it probably will be quite awhile before the book reaches all of the people who have requested it. We have several other publications on adobe brick and rammed earth construction - perhaps you would like to see some of these while you are waiting. The Forest Service has a splendid pamphlet ADOBE ARCHITECTURE - ITS DESIGN AND CONSTRUCTION published in 1941. There are two Farmers' Bulletins ADOBE OR SUN-DRIED BRICK FOR FARM BUILDINGS (FB1720) and RAMMED EARTH WALLS FOR BUILDINGS (FB1500) which have proved useful. A number of the Experiment Stations have issued bulletins on this subject. Four that have been used a great deal are THE PHYSICAL PROPERTIES OF ADOBE USED AS A BUILDING MATERIAL (Ariz.Agr.Exp.Sta.Bul.263) ADOBE CONSTRUCTION (Calif.Agr.Exp.Sta.Bul.472) PAINTS AND PLASTER FOR RAMMED EARTH WALLS (S.D.Agr. Exp.Sta.Bul.336) and ADOBE BRICKS FOR FARM BUILDINGS (Colo.Agr.Exp.Sta.Bul.308). Some of you have seen the Office of Indian Affairs pamphlet EARTH BRICK CONSTRUCTION by Elbert Hubbell, for we have listed it before. If you missed it you will want to see it now - it is one of the best.

Then, of course, there are the house plans. Two of the publications in the library presenting plans for farm buildings and houses are FARM BUILDING PLANS issued by the Farm Security Administration and PLANS OF FARM BUILDINGS FOR WESTERN STATES (USDA Misc.Pub.319).

RECENT BULLETINS

BRUSH AND TREE REMOVING MACHINERY. Okla.Agr.Exp.Sta. Bul.B-310 100 Ok4b
CITRUS ORCHARDING IN THE LOWER RIO GRANDE VALLEY OF TEXAS. Tex.Agr.Exp.Sta.
Circ.111 100 T31sc
COMBINATION RANCHING IN SOUTHEASTERN NEW MEXICO. N.M.Agr.Exp.Sta.Bul.332. 100 N46
FIRST AID FOR THE IRRIGATOR. USDA Misc.Pub. 624 1 Ag84M
MAINTAINING COTTON YIELDS THROUGH FERTILIZERS AND LEGUME ROTATION. N.M.Agr.Exp.Sta.
METHODS OF SOIL ANALYSIS FOR SOIL-FERTILITY INVESTIGATIONS. USDA Circ.757 1 Ag84C
PHYSICAL LAND CONDITIONS ON THE QUEEN CREEK SOIL CONSERVATION DISTRICT, ARIZONA.
Ariz.Agr.Exp.Sta.Tech.Bul. 113
SCORPIONS. Ariz.Ext.Circ.132 275.29 Ar47C
SEASON, DATE AND DEPTH OF PLANTING CRESTED WHEATGRASS AND OTHER GRASSES AT LOWER
ELEVATIONS IN NORTHERN NEVADA. U.S. Intermountain Forest and Range Exp. Sta.
Research Paper no.14. 1.9622 I2Rcl
SEED FOR REGRASSING GREAT PLAINS AREAS. USDA Farmers' Bul.1958. 1 Ag84F
SUCCESSFUL HOME CANNING OF MEATS AND VEGETABLES IN COLORADO. Colo.Ext.Serv.Bul.
398-4 275.29 C71B
USE OF SULFUR ON DISPERSED SOILS. U.S. Soil conservation service. Southwest
region. Reg. bul. no. 102 1.9608 R26
WIRING THE FARMSTEAD FOR EFFICIENCY. Colo.Ext.Serv.Bul.397-A 275.29 C71B

